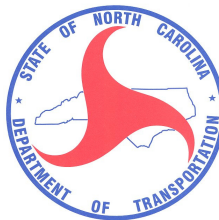


ANNUAL REPORT FOR 2010



Windsor Bypass Mitigation Sites
Bertie County
TIP No. R-2404A



Prepared By:
Natural Environment Unit & Roadside Environmental Unit
North Carolina Department of Transportation
June 2010

TABLE OF CONTENTS

SUMMARY	1
1.0 Introduction	2
.1 Project Description	2
.2 Purpose	2
.3 Project History	2
.4 Debit Ledger	2
2.0 Vegetation:	3
.1 Success Criteria	3
.2 Description of Species	3
.3 Results of Vegetation Monitoring	3
.4 Conclusions.	3
3.0 Overall Conclusions and Recommendations	3

FIGURES

Figure 1 – Site Location Map	4
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APPENDICES

Appendix A – Site Photos

SUMMARY

The Windsor Bypass Mitigation Sites are located in Bertie County. The sites were planted in January 2009 and were mitigated for wetland impacts associated with roadway project R-2404A.

The mitigation encompasses approximately 1.3 acres at Site 14 and 0.02 acres at Site IP#1 total of wetland restoration. The restoration effort involved the removal of the temporary detour at Site 14. The restoration effort also involved the removal of temporary fill and removal of a pipe extension along 20 linear feet of perennial stream channel at Site IP#1. The two sites will be monitored to ensure that it re-attains wetland jurisdictional status. No hydrologic monitoring is required for this project; however vegetation monitoring is required for three years.

After the second year of monitoring, the Windsor Bypass Mitigation Sites show by visual observation that the planted species are surviving and that the impacted area is re-attaining wetland jurisdictional status.

NCDOT proposes to continue vegetation monitoring at the Windsor Bypass Mitigation Sites.

1.0 INTRODUCTION

1.1 Project Description

The Windsor Bypass Mitigation Sites are located in Bertie County. Site 14 is located on Wakelon Road and Site IP#1 is located on a haul road for a borrow pit site just south off of Greens Cross Road. The sites consists of approximately 1.32 acres of mitigation for wetland impacts associated with roadway project R-2404A.

1.2 Purpose

In order for the mitigation sites to be considered successful, the sites must meet vegetation success criteria. This report details the vegetation monitoring in 2010 at the Windsor Bypass Mitigation Sites. Hydrologic monitoring was not required for the sites.

1.3 Project History

January 2009	Sites Planted
August 2009	Vegetation Monitoring (1 year)
June 2010	Vegetation Monitoring (2 year)

1.4 Debit Ledger

The entire Windsor Bypass wetland mitigation sites were used for the R-2404A project to compensate for unavoidable wetland impacts.

2.0 VEGETATION: WINDSOR BYPASS MITIGATION SITES (YEAR 2 MONITORING)

2.1 Success Criteria

Success Criteria states that the impacted areas where the onsite detour and pipe extension were removed shall be replanted using native species and must re-attain wetland jurisdictional status at the end of three years.

2.2 Description of Species

The following wetland species were planted in the Wetland Restoration Area:

Platanus occidentalis, American Sycamore

Betula nigra, River Birch

Prunus serotina, Black Cherry

2.3 Results of Vegetation Monitoring

The impacted areas where the onsite detour and pipe extension were removed and re-vegetated is re-attaining wetland jurisdictional status and the planted species are surviving.

Site Notes: Other species noted include: *Juncus* sp., sedge, red bud, sweetgum, woolgrass, fennel, smartweed, red maple, oak, pine, black willow, ragweed, lespedeza, baccharis, locust, and various grasses.

2.4 Conclusions

There were approximately 1.32 acres of wetland restoration planted on site. There were no plots established on the site. By visual observation the Windsor Bypass Mitigation Sites show that the planted species are surviving and that the impacted areas are re-attaining wetland jurisdictional status.

3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

NCDOT proposes to continue vegetation monitoring at the Windsor Bypass Mitigation Sites.

PROJECT: C201236
R-2404A

GALILEO SCALES

DESIGN DATA

AUT 2004 - 10,500
AOT 2005 - 21,000
DRY - 12 %
D - 15 %
V - 12 %
T - 12 %
W - 12 %
DUAL 4'6"

BEGIN CONSTRUCTION
BEGIN STATE PROJECT R-2404A
12+00.00

END CONSTRUCTION
END STATE PROJECT R-2404A
58+76.00

PROJECT LENGTHS

LENGTH ROADWAY TO PROJECT R-2404A	9.21 MILES
LENGTH BRIDGE TO PROJECT R-2404A	0.28 MILES
TOTAL LENGTH STATE PROJECT R-2404A	9.49 MILES

TYPE OF WORK: DESIGN-BUILD AS SPECIFIED IN THE SCOPE OF WORK CONTAINED IN THE DESIGN-BUILD PACKAGE

LOCATION: US 17 (WINSTON BYPASS) FROM US 1947, SOUTH OF WINSTON, TO EAST OF SR 1593 (DAVIS ROAD)

HDR
 HOD Engineering, Inc.
 1000 S. 10th Street, Suite 100
 Winston-Salem, NC 27101

PROJECT SUBMITTED BY:
RANDELL CONTRACTING COMPANY
 1000 S. 10th Street, Suite 100
 Winston-Salem, NC 27101

DESIGNED BY:
 RANDALL CONTRACTING COMPANY
 1000 S. 10th Street, Suite 100
 Winston-Salem, NC 27101

PERMIT TO BE OBTAINED FROM:
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 1000 S. 10th Street, Suite 100
 Winston-Salem, NC 27101

CONTRACT NO.:
R-2404A
CONTRACT NO.:
R-2404A
CONTRACT NO.:
R-2404A

PERMIT TO BE OBTAINED FROM:
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 1000 S. 10th Street, Suite 100
 Winston-Salem, NC 27101

CONTRACT NO.:
R-2404A
CONTRACT NO.:
R-2404A
CONTRACT NO.:
R-2404A

R-2404A PERMIT REVIEW SET

APPENDIX A

SITE PHOTOS

Windsor Bypass Site 14



Photo 1



Photo 2



Photo 3



Photo 4

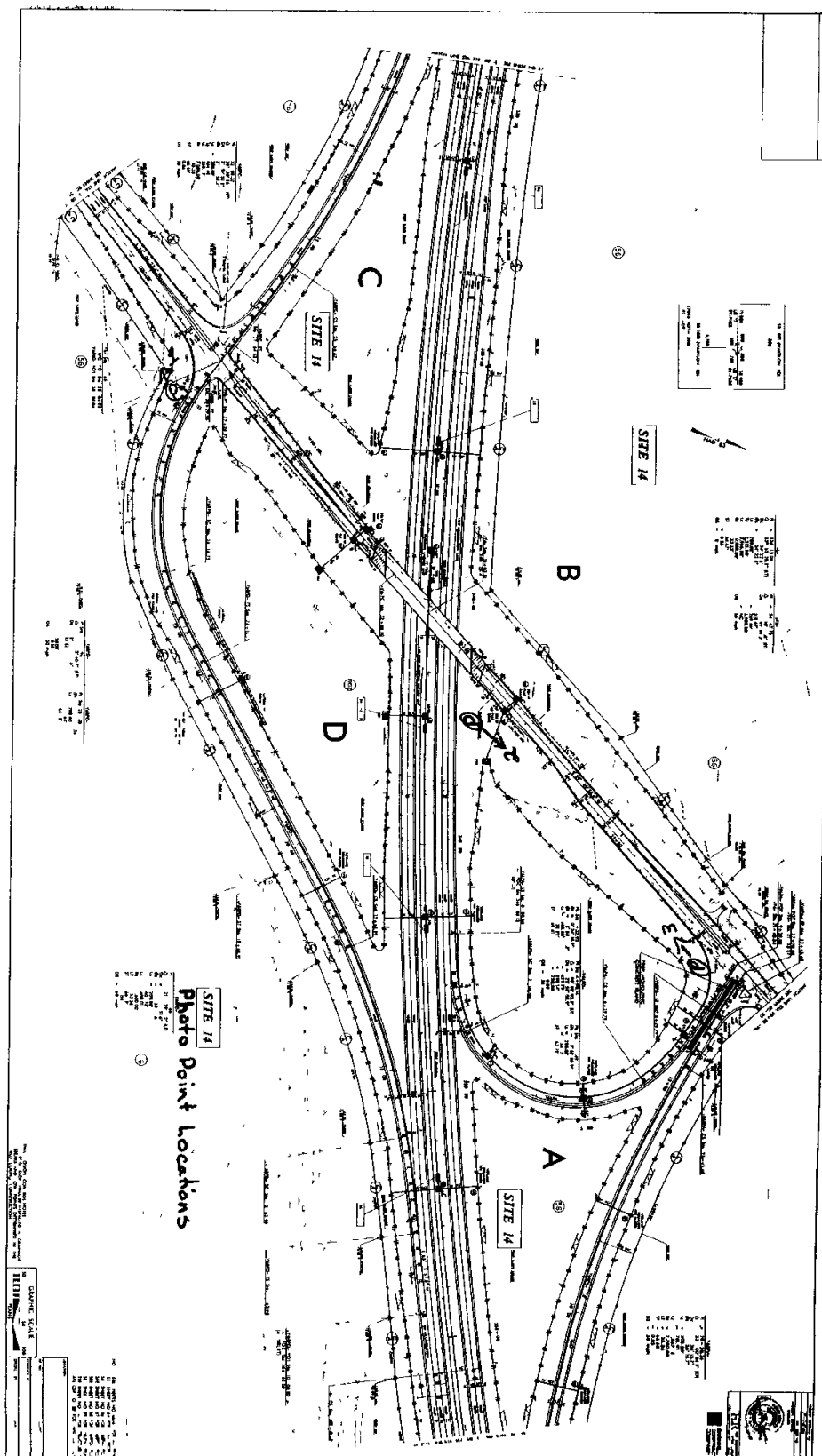


Photo 5



Photo 6

June 2010



PROJECT NUMBER NO. **R-2007A** SHEET NO. **EC-20**

SECTION CONTROL

BARRELL CONTRACTING COMPANY

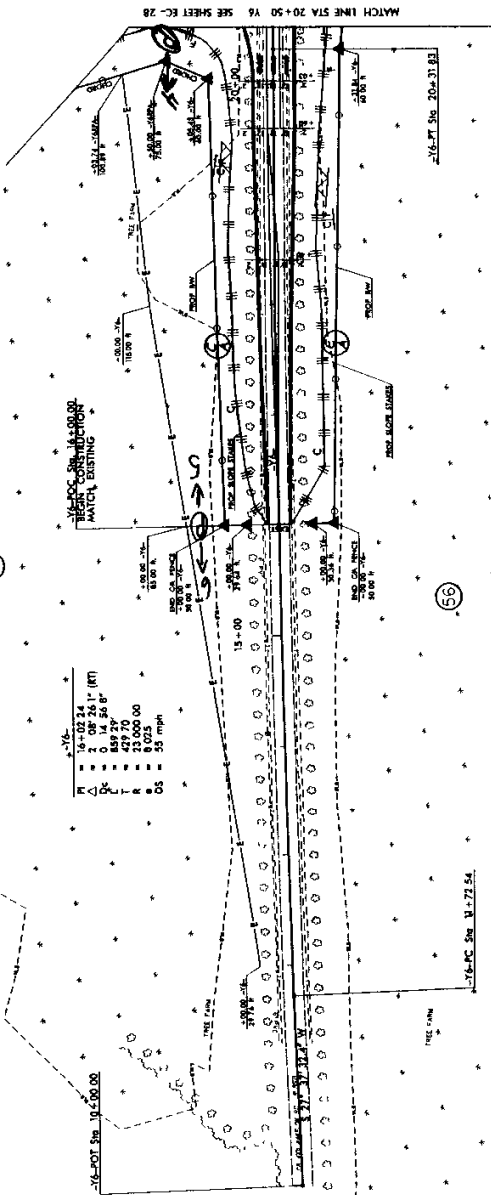
1000 E. 10th Street, Suite 100
Tulsa, Oklahoma 74103
Phone: (918) 438-1111
Fax: (918) 438-1112



(56)

STATIONING

STATION	DESCRIPTION
10+00.00	START OF SECTION
10+24.11	RT
10+54.87	LT
11+00.00	END OF SECTION
11+00.00	START OF SECTION
11+24.11	RT
11+54.87	LT
12+00.00	END OF SECTION



SITE 14
Photo Point Locations

DATE: 10/1/07
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

FINAL EROSION CONTROL NOTES:
1. EROSION CONTROL MEASURES SHALL BE INSTALLED AT DAMAGE
2. BEAMS AND LOW POINTS DETERMINED IN THE
3. FIELD DURING CONSTRUCTION

NOTES SEE SHEET NO. 84 FOR 1/4" MOBILE

Windsor Bypass Site IP#1



Photo 1



Photo 2

June 2010